

Product datasheet for MC209268

Qk (NM_021881) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Qk (NM_021881) Mouse Untagged Clone
Tag: Tag Free
Symbol: Qk
Synonyms: 1110003F05Rik; 1500005P18; l(17)-1Wis; l17Wis1; Qkl
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209268 representing NM_021881
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCGGGAAATGAAACGAAGGAGAAGCCGAAGCCACCCAGATTATTTGATGCAGCTGATGAACG
 ACAAGAAGCTCATGAGCAGCCTGCCAACTTCTGCGGGATCTTCAACCACCTCGAGCGGCTGCTGGACGA
 AGAAATTAGCAGAGTACGAAAGACATGTACAATGACACGTTAAATGGCAGTACAGAGAAAAGAAGTGCA
 GAATTGCCTGACGCGGTGGGACCCATTGTTCAAGTTACAAGAGAACTTTATGTGCCTGTAAAAGAATACC
 CTGATTTTAATTTTGTGGGAGAATCCTTGGACCTAGAGGACTTACAGCTAAACAATTGAAGCAGAAAAC
 GGGATGTAAAATAATGGTCCGAGGCAAAGGCTCAATGAGGGATAAAAAGAAGGAGGAGCAAAAATAGAGGC
 AAGCCCAATTGGGAGCATCTAAATGAAGACTTACATGTAATCACTGTGGAAGATGCTCAGAACAGAG
 CAGAAATCAAGCTGAAGAGAGCGGTTGAAGAAGTGAAGAAGTTACTGGTACCTGCGGCTGAAGGTGAAGA
 CAGCCTGAAGAAGATGCAGCTGATGGAGCTTGAATTTCTGAATGGCACCTACAGAGACGCCAACATTA
 TCACCAGCCCTTGCCCTTTCTCTTGCAGCAACTGCCAGGCTGCTCAAGGATCATCACTGGCCCTGCGC
 CTGTCTCCACCAGCTGCTCTGCGTACACCTACGCCAGCTGGCCCTACCATAATGCCTTTGATCAGACA
 AATACAGACCGCTGTATGCCAAACGGAACCTCACCACCAACTGCTGCAATAGTCCCTCCAGGGCCTGAA
 GCTGGGTTAATCTACACCCCTATGAATACCCCTACACATTGGCACCAGCTACATCAATCCTTGAGTACC
 CTATTGAACCCAGTGGTGTGTTAGAGTGGATTGAAATGCCAGTCAATGCCTGATATTTAGCCCAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_021881
Insert Size: 978 bp



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| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | NM_021881.2 , NP_068681.1 |
| RefSeq Size: | 6718 bp |
| RefSeq ORF: | 978 bp |
| Locus ID: | 19317 |
| UniProt ID: | Q9QYS9 |
| Cytogenetics: | 17 7.75 cM |
| Gene Summary: | <p>RNA-binding protein that plays a central role in myelination (PubMed:10864952, PubMed:11917126). Also required for visceral endoderm function and blood vessel development (PubMed:11892011, PubMed:16470614). Binds to the 5'-NACUAAAY-N(1,20)-UAAAY-3' RNA core sequence (PubMed:16041388). Acts by regulating pre-mRNA splicing, mRNA export, mRNA stability and protein translation, as well as cellular processes including apoptosis, cell cycle, glial cell fate and development (PubMed:10535969, PubMed:12467586, PubMed:11297509, PubMed:11917126, PubMed:15568022). Required to protect and promote stability of mRNAs such as MBP and CDKN1B which promotes oligodendrocyte differentiation (PubMed:10535969, PubMed:15568022). Participates in mRNA transport by regulating the nuclear export of MBP mRNA (PubMed:12467586). May also play a role in smooth muscle development (PubMed:14706070).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (3) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |